

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000694**Date Inspected:** 28-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai

<b>Quality Control Contact:</b>	ABF Paint Supervisor William (Bill) Oak			<b>Quality Control Present:</b>	<b>Yes</b>	<b>No</b>
<b>Material transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Sampled Items:</b>	<b>Yes</b>	<b>No</b> <b>N/A</b>
<b>Stock Transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>OK to Cut:</b>	<b>Yes</b>	<b>No</b> <b>N/A</b>
<b>Rebar Test Witness:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Delayed/Cancelled:</b>	<b>Yes</b>	<b>No</b> <b>N/A</b>
<b>Other:</b>	Surface Preparation and Coatings Application					
<b>Bridge No:</b>	34-0006			<b>Component:</b>	OBG Misc. Metal, Tower L2S	
<b>Bid Item:</b>	77,78,79,80			<b>Lot No:</b>	B226	

**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

The following inspections were performed by Caltrans QA Coatings Inspector Jordan, American Bridge/Fluor Enterprises, a JV (ABF) Paint Supervisors William (Bill) Oak and Don Walton, ABF QC Zhou Qun Song (Joe), ABF QC David Duon, ABF QC Shi Zhaoyuan (Stone), ABF QC Zhou Wei, ABF QC Wei Chang Yun, ABF QC Sun Xiong, International Paint (IP) Onsite Technical Services Engineer (OTSE) Peng Zi Li, IP OTSE Alpha Chen, Zhenhua Port Machinery Company, LTD (ZPMC) QC Manager Xia Yong, ZPMC QC Zhang Diang, ZPMC QC Dong Yao Fei and ZPMC QC Guo Wan Li, ZPMC QC Xie Yong Gang, ZPMC QC An Ming, ZPMC QC Dong Ji Fang and ZPMC QC Xia Yu Juan.

All Notices of Inspection and Quality Control (QC) Inspection reports signed by Mr. Jordan on this date identify receipt of the documentation and are not intended to be identified as acceptance or rejection of the work performed.

Tower Lift 2 South

First inspection request:

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting and primer coat application on the internal section of Tower L2S

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## SOURCE INSPECTION REPORT

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from 53m to 65m. After looking at the abrasive blasted surfaces it was determined by ABF that the base metal did not meet the Society for Protective Coatings (SSPC) SP10 Near White Metal Contract requirements. ZPMC was informed by ABF QC that further grinding and abrasive blasting was required. ABF QC's determination was verified by Caltrans QA Coatings Inspector Jordan. The contractor began performing the repairs as directed by ABF QC personnel.

Second inspection request:

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting and primer coat application on the internal section of Tower L2S from 53m to 65m. After looking at the abrasive blasted surfaces it was determined by ABF that the base metal did not meet the Society for Protective Coatings (SSPC) SP10 Near White Metal Contract requirements. ZPMC was informed by ABF QC that further grinding and abrasive blasting was required. ABF QC's determination was verified by Caltrans QA Coatings Inspector Jordan. The contractor began performing the repairs as directed by ABF QC personnel.

OBG Miscellaneous Metal

Caltrans QA Coatings Inspectors received a Notice of Inspection to attend a joint inspection with ABF and ZPMC QC for surface preparation inspection prior to finish (mist) coat application on external surfaces of 4 counterweight segments. The surfaces were clean and dry. Dry film thicknesses (dft's) readings were within the specified range per contract. The contract required cure tests were performed on the zinc primer and found to be acceptable. The ambient conditions were within the specified ranges of contract requirements for coating application. The contractor was allowed to proceed with finish (mist) coat application.

Fabrication on assembled components of the OBG's and Towers are not complete. Outstanding weld repairs have not been performed. Coating damage requiring re-blast is expected.

### Summary of Conversations:

There were no relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Jordan,Don	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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